



Name: _____

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Geometry, Period _____

Due Date: Fri, 5 Dec 2014

HW68_QuizReview

**Geometry
Homework**

Form A

Quiz Day Friday... STUDY!!

Part 1: Common Squares – list all of them! Write as many as you can from memory. Recommended: make flash cards for all the ones you had to use your calculator for (even if it was to verify because you weren't positive).

$2^2 = \underline{\hspace{2cm}}$

$5^2 = \underline{\hspace{2cm}}$

$8^2 = \underline{\hspace{2cm}}$

$11^2 = \underline{\hspace{2cm}}$

$3^2 = \underline{\hspace{2cm}}$

$6^2 = \underline{\hspace{2cm}}$

$9^2 = \underline{\hspace{2cm}}$

$12^2 = \underline{\hspace{2cm}}$

$4^2 = \underline{\hspace{2cm}}$

$7^2 = \underline{\hspace{2cm}}$

$10^2 = \underline{\hspace{2cm}}$

$13^2 = \underline{\hspace{2cm}}$

Part 2: Simplifying Radicals

Simplify the amount under the square root sign (the "radicand"). Leave the answer in exact form (not rounded).

For example, $\sqrt{18} = \sqrt{9 \cdot 2} = \sqrt{9} \cdot \sqrt{2} = 3\sqrt{2}$ *When breaking into parts, look for factor that is the LARGEST perfect square*

$\sqrt{16} = \boxed{\hspace{1cm}}$

$\sqrt{36} = \boxed{\hspace{1cm}}$

$\sqrt{121} = \boxed{\hspace{1cm}}$

$\sqrt{12} = \boxed{\hspace{1cm}}$

$\sqrt{18} = \boxed{\hspace{1cm}}$

$\sqrt{48} = \boxed{\hspace{1cm}}$

$\sqrt{4 \cdot 3}$

$\sqrt{9 \cdot 2}$

$\sqrt{8} = \boxed{\hspace{1cm}}$

$\sqrt{32} = \boxed{\hspace{1cm}}$

$\sqrt{75} = \boxed{\hspace{1cm}}$

$\sqrt{112} = \boxed{\hspace{1cm}}$

$\sqrt{150} = \boxed{\hspace{1cm}}$

$\sqrt{45} = \boxed{\hspace{1cm}}$

Part 3: Multiplying Radicals

$$\sqrt{x^2} = x$$

$$\sqrt{x^3}$$

$$\sqrt{x^2} \cdot \sqrt{x}$$

$$x\sqrt{x}$$

$$6) \sqrt{48g^5p}$$

$$1) \sqrt{125w^5}$$

$$\sqrt{125} \cdot \sqrt{w^5}$$

$$\sqrt{25} \cdot \sqrt{5} \cdot \sqrt{w^4} \cdot \sqrt{w}$$

$$2) \sqrt{8b}$$

$$7) \sqrt{81b^2}$$

$$3) \sqrt{539s^5h^3}$$

$$8) \sqrt{64}$$

$$9) \sqrt{+36}$$

$$11) -3\sqrt{+10}$$

$$10) 2\sqrt{+49}$$

$$12) 5\sqrt{+8}$$

Part 4: Inequalities with exponents & radicands

$$13) \sqrt{16} \cdot \sqrt{25}$$

$$14) \sqrt{16} \cdot \sqrt{25}$$

$$15) \sqrt{16} \cdot \sqrt{25}$$

$$16) 2x + 11 > 3$$

$$17) \frac{x-4}{3} \geq 5$$

$$18) \frac{x}{6} - 2 \leq 3$$